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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,541	04/11/2001	David A. Morgenstern	MTC 6638.7	3285
321 7590 01/31/2007 SENNIGER POWERS ONE METROPOLITAN SQUARE 16TH FLOOR ST LOUIS, MO 63102			EXAMINER	
			OH, TAYLOR V	
			ART UNIT	PAPER NUMBER
			1625	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		01/31/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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 	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
		09/832,541	MORGENSTERN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Taylor Victor Oh	1625			
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
Period fo	, •					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSIGNS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the state of the state	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on <u>02 Ne</u>	ovember 2006.				
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3)	· 					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Dispositi	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>See Continuation Sheet</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	5) Claim(s) is/are allowed.					
6) Claim(s) 1,3-7, 9-14, 16-22, 24-39, 43-44, 46-48,50-59,61-67,69-76,93-97,99-101,169-176,178-191,194-202, and						
<u>208-254</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
9)[The specification is objected to by the Examine	ır.				
10)	The drawing(s) filed on is/are: a) acce	epted or b)□ objected to by the	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
441	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)[]	The oath or declaration is objected to by the Ex	taminer. Note the attached Offic	e Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
200 the attached detailed office action for a list of the certified copies not received.						
Attachmen		Λ. Π. 1. 1. A	(DTO 440)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
3) X Infor						

Continuation of Disposition of Claims: Claims pending in the application are 1,3-7,9-14,16-22,24-39,43,44,46-48,50-59,61-67,69-76,93-97,99-101,169-176,178-191,194-202 and 208-254.

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Final Rejection

The Status of Claims

Claims 1,3-7,9-14,16-22,24-39,43-44,46-48,50-59,61-67,69-76,93-97,99-101,169-176,178-191,194-202, 208-254 are pending.

Claims 1,3-7,9-14,16-22,24-39,43-44,46-48,50-59,61-67,69-76,93-97,99-101,169-176,178-191,194-202, 208-254 have been rejected.

Claim Rejections - 35 USC § 112

1. Applicants' argument filed 11/02/06 have been fully considered but are not persuasive.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Although applicants have complied to some of the examiner' suggestions, the revised Claims 1-22, 30-59, 67-76, 93-97, 99-101, and 169-251 are still rejected under 35 USC 112, first paragraph due to applicants' failure to modify the claims in the

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amendment.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The rejection of Claims 2-4, 7-8,11,19,32,34,35-40,49,51,54,67-68,93,169,171-176,190,196,216,219,222,225,228,231,234,237,240,243,246, and 249 under 35 U.S.C. 112, second paragraph, has been withdrawn due to applicants' convincing argument in the amendment.

The rejection of Claims 15-16, 23, 60, and 98-99 under 35 U.S.C. 112, second paragraph, has been withdrawn due to the modification and cancellation of the claims in the amendment, whereas rejection of Claims 25 and 62 under 35 U.S.C. 112, second paragraph, has been maintained due to applicants' failure to modify the claims in the amendment.

Claims 1 and its dependent claims are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the phrase " hydrocarbyl, or substituted hydrocarbyl" is recited.

This expression is vague and indefinite because the term " hydrocarbyl " would mean any compounds with carbon atom and hydrogen atom under the definition of

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that term without specifying <u>any carbon atom range</u>; therefore, there is uncertainty in the claimed language with no metes and bounds. Furthermore, the phrase "<u>substituted hydrocarbyf</u>" is indefinite. In the absence of the specific moieties intended to effectuate modification by the "substitution" or attachment to the chemical core claimed, the term "substituted" renders the claims in which it appears indefinite in all occurrences wherein applicants fails to articulate by chemical name, structural formula or sufficiently distinct functional language, the particular moieties applicants regards as those which will facilitate substitution, requisite to identifying the composition of matter claimed. Therefore, an appropriate correction is required.

Claim Rejections - 35 USC 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The rejection of Claims 1, 15-18, 23-31, 46-49, 60-66, 74-76, 93, and 98-101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goto et al. (US 4,782,183) in view of Franczyk et al. (U.S. 5,292,936)has been withdrawn due to applicants' convincing argument.

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Applicants' Argument

- 2. The applicants argue the following issues:
 - a. the claimed invention includes hydrocarbyls wherein at least one hydrogen atom has been substituted with an atom other than hydrogen or a group of atoms containing at least one atom other than hydrogen; the specification goes on to list examples wherein thehydrogen atom may be substituted with a halogen atom ,such as a chlorine or fluorine atom , a hydroxyl group, a carboxylic acid, an amide, nitro group, and –SO₃H (see, for example, page 11, lines 19-28); thus, the scope of the claimed invention and the claimed invention are defined and clear.
 - b. the Franczyk et al describes using a catalyst having only trace amounts of non-copper metals, 1 % or less non-copper metals and Goto et al describe using a catalyst containing copper in combination with a zirconium compound, which is not described as a non-copper metal.

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The applicants' argument have been noted, but these arguments are not persuasive.

First, with regard to the first arguments, the Examiner has noted applicants' argument. However, the instant claimed invention is highly unpredictable since one skilled in the art would recognize that dehydrogenating catalytically any primary alcohols with any hydrocarbyl or any substituted hydrocarbyl group consisted of various lengths and sizes of straight-chain or branched chain, cyclic alcohols, heterocylic alcohols, any aromatic any alicyclic alcohols, and a divers scope of acylic alcohols, and mixtures thereof would result in only the uncertainty of the outcomes of the process as shown in Lazier (US 1,975,853) and Hagemeyer (U.S. 3,254,128), which disclose not only the acid, but also ester, aldehyde, acid, ketone, which are not the intended final products of the claimed process(final product: the carboxylic acid salt). Therefore, any primary alcohols with any hydrocarbyl or any substituted hydrocarbyl group consisted of various lengths and sizes of straight-chain or branched chain, cyclic alcohols, heterocylic alcohols, any aromatic any alicyclic alcohols, and a divers scope of acylic alcohols, and mixtures thereof can not be translated to induce to form the production of the carboxylic acid salt product. Thus, unlike applicants' argument, the scope of the any hydrocarbyl or any substituted hydrocarbyl group is unlimited for the claimed invention.

Furthermore, regarding the indefiniteness of the claimed language"

hydrocarbyl, and *substituted hydrocarbyl**, this expression is vague and indefinite because the term *hydrocarbyl** would mean any compounds with carbon atom and

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hydrogen atom under the definition of that term without specifying any carbon atom range; therefore, there is uncertainty in the claimed language with no metes and bounds. Moreover, the phrase "substituted hydrocarbyl" is indefinite. In the absence of the specific moieties intended to effectuate modification by the "substitution" or attachment to the chemical core claimed, the term "substituted" renders the claims in which it appears indefinite in all occurrences wherein applicants fails to articulate by chemical name, structural formula or sufficiently distinct functional language, the particular moieties applicants regards as those which will facilitate substitution, requisite to identifying the composition of matter claimed. If applicants believe that those substitutents are part of the claimed hydrocarbyl, the examiner should recommend those substitutents to put into the claims. According to the case law, Ex parte Fressola, 27 USPQ 2d 1608 (USPTO Bd. App. & Int 1993), a claim referring to the specification is improper because the claims should particularly point out the subject matter that applicants regards as the invention. Therefore, applicants' argument is not persuasive.

Second, with regard to the second argument, the Examiner agrees.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taylor Victor Oh whose telephone number is 571-272-0689. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Taylor Victor Oh, MSD,LAC

1/19107

Primary Examiner

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